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PTO/SB/08B (08-03)

Substitute for form 1449B/PTO
**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet

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of

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Complete if Known

Application Number	09/914,508
Filing Date	November 7, 2001
First Named Inventor	Beerelli Seshi
Group Art Unit	1651
Examiner Name	Vera Afremova

Attorney Docket Number USF-T173CXC1

NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
MB	R14	HAYNESWORTH, S.E. et al. "Characterization of cells with osteogenic potential from human marrow" <i>Bone</i> , 1992, 13:81-88.
	R15	HAYNESWORTH, S.E. et al. "Cell surface antigens on human marrow-derived mesenchymal cells are detected by monoclonal antibodies" <i>Bone</i> , 1992, 13:69-80.
	R16	HENDERSON, A.J. et al. "Functional characterization of two stromal cell lines that support B lymphopoiesis" <i>J. Immunology</i> , 1990, 145:423-428.
	R17	HICOK, K.C. et al. "Development and characterization of conditionally immortalized osteoblast precursor cell lines from human bone marrow stroma" <i>J. Bone and Mineral Res.</i> , 1998, 13(2):205-217.
	R18	HORWITZ, E.M. et al. "Transplantability and therapeutic effects of bone marrow-derived mesenchymal cells in children with osteogenesis imperfecta" <i>Nature Med.</i> , 1999, 5(3):309-313.
	R19	IWATA, M. et al. "Functional interleukin-7 receptors (IL7R) are expressed by marrow stromal cells: binding of IL-7 increases levels of IL-6 mRNA and secreted protein" August 2002 (epub date May 2002), 100:1318-1325.
	R20	KEATING, A. et al. "Donor origin of the <i>in vitro</i> haematopoietic microenvironment after marrow transplantation in man" <i>Nature</i> , 1982, 298:280-283.
	R21	KELLY, K.A. and J.M. GIMBLE "1,25-Dihydroxy vitamin D ₃ inhibits adipocyte differentiation and gene expression in murine bone marrow stromal cell clones and primary cultures" <i>Endocrinology</i> , 1998, 139:2622-2628.
	R22	KOÇ, O.N. et al. "Bone marrow-derived mesenchymal stem cells remain host-derived despite successful hematopoietic engraftment after allogeneic transplantation in patients with lysosomal and peroxisomal storage diseases" <i>Exp. Hematology</i> , 1999, 27:1675-1681.
	R23	KOPEN, G.C. et al. "Marrow stromal cells migrate throughout forebrain and cerebellum, and they differentiate into astrocytes after injection into neonatal mouse brains" <i>Proc. Natl. Acad. Sci. USA</i> , 1999, 96:10711-10716.
	R24	LIESVELD, J.L. et al. "Characterization of human marrow stromal cells: Role in progenitor cell binding and granulopoiesis" <i>Blood</i> , 1989, 73(7):1794-1800.
	R25	MOORE, M.A.S. et al. "Prolonged hematopoiesis in a primate bone marrow culture system: Characteristics of stem cell production and the hematopoietic microenvironment" <i>Blood</i> , 1979, 54(4):775-793.
MB	R26	PARK, S.R. et al. "Interconversion potential of cloned human marrow adipocytes <i>in vitro</i> " <i>Bone</i> , 1999, 24(6):549-554.

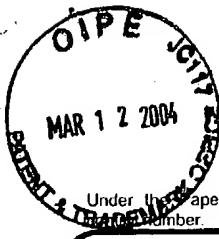
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Group Art Unit	1651
Examiner Name	Vera Afremova
Attorney Docket Number	USF-T173CXC1

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M/B	R27	PENN, P.E. et al. "Dissecting the hematopoietic microenvironment. IX. Further characterization of murine bone marrow stromal cells" <i>Blood</i> , 1993, 81(5):1205-1213.
	R28	PESSINA, A. et al. "Expression of B cell markers on SR-4987 cells derived from murine bone marrow stroma" <i>Exp. Hematology</i> , 1997, 25:536-541.
	R29	PROCKOP, D.J. "Marrow stromal cells as stem cells for nonhematopoietic tissues" <i>Science</i> , 1997, 276:71-74.
	R30	ROECKLEIN, B.A. and B. TOROK-STORB "Functionally distinct human marrow stromal cell lines immortalized by transduction with the human papilloma virus E6/E7 genes" <i>Blood</i> , 1995, 85(4):997-1005.
	R31	SESHI, B. et al. "Multilineage gene expression in human bone marrow stromal cells as evidenced by single-cell microarray analysis" <i>Blood Cells, Molecules, and Diseases</i> , 2003, 31:268-285.
	R32	SILER, U. et al. "Laminin $\gamma 2$ chain as a stromal cell marker of the human bone marrow microenvironment" <i>Brit. J. Haematology</i> , 2002, 119:212-220.
	R33	SIMMONS, P.J. et al. "Host origin of marrow stromal cells following allogeneic bone marrow transplantation" <i>Nature</i> , 1987, 328:429-432.
	R34	SINGER, J.W. et al. "Evidence for a stem cell common to hematopoiesis and its <i>in vitro</i> microenvironment: Studies of patients with clonal hematopoietic neoplasia" <i>Leukemia Res.</i> , 1985, 8(4):535-545.
	R35	STEDMAN, T.L., Stedman's Medical Dictionary, 5 th Edition, 1984, pp. 931-932.
	R36	STOPPLER, H. et al. "The human papillomavirus type 16 E6 and E7 oncoproteins dissociate cellular telomerase activity from the maintenance of telomere length" <i>J. Biol. Chem.</i> , 1997, 272(20):13332-13337.
	R37	TAICHMAN, R.S. et al. "Human osteoblasts support human hematopoietic progenitor cells in <i>in vitro</i> bone marrow cultures" <i>Blood</i> , 1996, 87(2):518-524.
	R38	TOROK-STORB, B., ATCC Catalog, ATCC Number CRL-2496.
M/B	R39	TOROK-STORB, B. et al. "Dissecting the marrow microenvironment" <i>Ann. NY Acad. Sci.</i> , 1999, 872:164-170.

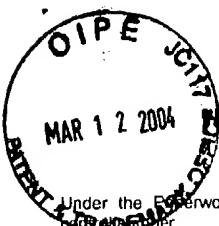
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MB	R40	TAICHMAN, R.S. and S.G. EMERSON "Human osteoblasts support hematopoiesis through the production of granulocyte colony-stimulating factor" <i>J. Exp. Med.</i> , 1994, 179:1677-1682.	
	R41	TERADA, N. et al. "Bone marrow cells adopt the phenotype of other cells by spontaneous cell fusion" <i>Nature</i> , 2002, 416:542-545.	
	R42	THOMAS, T. et al. "Leptin acts on human marrow stromal cells to enhance differentiation to osteoblasts and to inhibit differentiation to adipocytes" <i>Endocrinology</i> , 1999, 140:1630-1638.	
	R43	TREMAIN, N. et al. "MicroSAGE analysis of 2,353 expressed genes in a single cell-derived colony of undifferentiated human mesenchymal stem cells reveals mRNAs of multiple cell lineages" <i>Stem Cells</i> , 2001, 19:408-418.	
	R44	WINEMAN, J. et al. "Functional heterogeneity of the hematopoietic microenvironment: Rare stromal elements maintain long-term repopulating stem cells" <i>Blood</i> , 1996, 87(10):4082-4090.	
	R45	WOODBURY, D. et al. "Adult bone marrow stromal stem cells express germline, ectodermal, endodermal, and mesodermal genes prior to neurogenesis" <i>J. Neuroscience Res.</i> , 2002, 96:908-917.	
MB	R46	YAMAZAKI, K. et al. "A comparative morphometric study on the ultrastructure of adherent cells in long-term bone marrow culture from normal and congenitally anemic mice" <i>Blood Cells</i> , 1989, 15:343-364.	
	R47		
	R48		
	R49		
	R50		
	R51		
	R52		

Examiner
Signature

Date
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Substitute for form 1449A/PTO

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First Named Inventor	Beerelli Seshi
Art Unit	1651
Examiner Name	Vera Afremova

Attorney Docket Number

USF-T173CXC1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MVB	U1	US-5,521,067	05-28-1996	Seshi	All
	U2	US-			
	U3	US-			
	U4	US-			
	U5	US-			
	U6	US-			
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	U8	US-			
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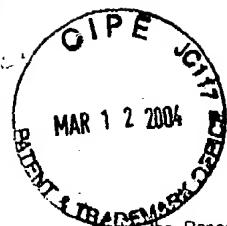
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MB	R1	CHAKRABARTI, O. and S. KRISHNA "Molecular interactions of 'high risk' human papillomaviruses E6 and E7 oncoproteins: implications for tumour progression" <i>J. Biosci.</i> , 2003, 28(3):337-348.	
	R2	CHARBORD, P. et al. "Stromal cells from human long-term marrow cultures, but not cultured marrow fibroblasts, phagocytose horse serum constituents: studies with a monoclonal antibody that reacts with a species-specific epitope common to multiple horse serum proteins" <i>Exp. Hematol.</i> , 1987, 15:72-77.	
	R3	CONGET, P.A. and J.J. MINGUELL "Phenotypical and functional properties of human bone marrow mesenchymal progenitor cells" <i>J. Cell. Physiol.</i> , October 1999, 181:67-73.	
	R4	DENNIS, J.E. et al. "A quadripotential mesenchymal progenitor cell isolated from the marrow of an adult mouse" <i>J. Bone and Mineral Res.</i> , 1999, 14(5):700-709.	
	R5	DEUNSING, S. and K. MUNGER "The human papillomavirus type 16 E6 and E7 oncoproteins independently induce numerical and structural chromosome instability" <i>Cancer Res.</i> , 2002, 62:7075-7082.	
	R6	DEUNSING, S. et al. "The human papillomavirus type 16 E6 and E7 oncoproteins cooperate to induce mitotic defects and genomic instability by uncoupling centrosome duplication from the cell division cycle" <i>PNAS</i> , 2000, 97(18):10002-10007.	
	R7	DORSHKIND, K. "Multilineage development from adult bone marrow cells" <i>Nature Immunology</i> , 2002, 3(4):311-313.	
	R8	DURST, M. et al. "Inverse relationship between human papillomavirus (HPV) type 16 early gene expression and cell differentiation in nude mouse epithelial cysts and tumors induced by HPV-positive human cell lines" <i>J. Virology</i> , 1991, 65(2):796-804.	
	R9	FRIEDENSTEIN, A.J. et al. "Fibroblast precursors in normal and irradiated mouse hematopoietic organs" <i>Exp. Hemat.</i> , 1976, 4:267-274.	
	R10	EAVES, A.C. and C.J. EAVES "Maintenance and proliferation control of primitive hemopoietic progenitors in long-term cultures of human marrow cells" <i>Blood Cells</i> , 1988, 14:355-368.	
	R11	GERSON, S.L. "Mesenchymal stem cells: No longer second class marrow citizens" <i>Nature Med.</i> , 1999, 5(3):262-264.	
	R12	GRAF, L. et al. "Gene expression profiling of the functionally distinct human bone marrow stromal cell lines HS-5 and HS-27a" <i>Blood</i> , 2002, 100(4):1509-1511.	
MB	R13	GRAVITT, P. "HPV: The ultimate cancer initiator?" <i>HPV Today</i> , No. 3, September 2003, pp. 1-4.	

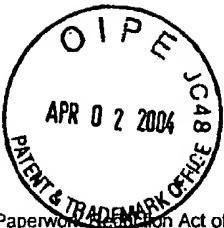
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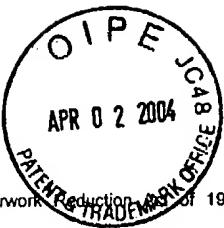
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MB	F1	WO 01/94541 A2	12-13-2001	Univ. of South Florida	All
MB	F2	WO 03/029432 A2	04-10-2003	Univ. of South Florida	All
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MBS	R1	LAZARUS, H.M. <i>et al.</i> "Human bone marrow-derived mesenchymal (stromal) progenitor cells (MPCs) cannot be recovered from peripheral blood progenitor cell collections" <i>J. Hemototherapy</i> , 1997, 6:447-455.	
MB	R2	SIMMONS, P.J. <i>et al.</i> "Isolation, characterization and functional activity of human marrow stromal progenitors in hemopoiesis" <i>Advances in Bone Marrow Purging and Processing</i> , 1994, 389:271-280.	
MBS	R3	SULLIVAN, A.K. <i>et al.</i> "Cellular composition of rat bone marrow stroma" <i>Lab. Invest.</i> , 1989, 60(4):667-676	
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